

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1. (Previously presented) A method of expanding a population of hematopoietic stem cells, the method comprising steps of:
providing at least one hematopoietic stem cell with less than wild type p21 activity and a lack of inhibition of p27 activity; and
expanding the cell population.
2. (Previously presented) The method of claim 1, wherein the step of providing comprises:
providing a hematopoietic stem cell; and
disrupting the cell's p21 gene.
3. (Previously presented) The method of claim 1, wherein the step of providing comprises:
providing a hematopoietic stem cell; and
contacting the cell with an agent, wherein the agent inhibits p21 activity.
- 4.-9. (Canceled)
10. (Previously presented) The method of claim 1, wherein the cell is an erythropoietic cell.
11. (Previously presented) The method of claim 1, wherein the cell is a granulopoietic cell.

12. (Previously presented) The method of claim 1, wherein the cell is a thrombopoietic cell.

13.-14. (Canceled)

15. (Currently amended) The method of claim 1, wherein the cell is an adult-derived hematopoietic stem cell.

16. (Currently amended) The method of claim 1, wherein the cell is an embryonically derived hematopoietic stem cell.

17. (Canceled)

18. (Currently amended) The method of claim 1, wherein the cell is a multi-potential hematopoietic stem cell.

19. (Previously presented) The method of claim 1, wherein the cell is a fetal cell.

20. (Previously presented) The method of claim 1, wherein the cell is an embryonic cell.

21. (Canceled)

22. (Previously presented) The method of claim 3, wherein the agent is a protein.

23. (Previously presented) The method of claim 3, wherein the agent is a peptide.

24. (Previously presented) The method of claim 3, wherein the agent is a polynucleotide.

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| 25. | (Previously presented) | The method of claim 3, wherein the agent is a chemical compound. |
| 26. | (Previously presented) | The method of claim 3, wherein the agent is an antibody or fragment thereof. |
| 27. | (Previously presented) | The method of claim 3, wherein the agent is an antisense agent. |
| 28. | (Previously presented) | The method of claim 3, wherein the agent is a triple helix forming agent. |
| 29. | (Previously presented) | The method of claim 3, wherein the agent is an aptamer. |
| 30. | (Previously presented) | An isolated hematopoietic stem cell with less than wild type p21 activity and a lack of inhibition of p27 activity. |
| 31. | (Previously presented) | The stem cell of claim 30 with at least one copy of the p21 gene disrupted. |
| 32. | (Previously presented) | The stem cell of claim 30 with both copies of the p21 gene disrupted. |
| 33.-74. | (Canceled) | |
| 75. | (Previously presented) | The method of claim 3, wherein the agent is an RNA inhibiting agent. |